RAW SEQUENCE LISTING

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Application Serial Number: _09/512,568_
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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION   *US/09/512,568*

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ifw16

> **This Raw Listing contains the General**
> **Information Section and up to the first 5 pages.**

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 1                                      SEQUENCE LISTING
 2
 3    (1)      General Information:
 4          (i) APPLICANT: Hein, Mich B.
 5                          Hiatt, Andrew C.
 6                          Ma, Julian K.C.
 7         (ii) TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING ASSEMBLED
 8                                  SECRETORY ANTIBODIES
 9        (iii) NUMBER OF SEQUENCES: 26
10         (iv) CORRESPONDENCE ADDRESS:
11              (A) ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
12              (B) STREET: 10666 North Torrey Pines Road, TPC-8
13              (C) CITY: La Jolla
14              (D) STATE: California
15              (E) COUNTRY: US
16              (F) ZIP: 92037
17          (v) COMPUTER READABLE FORM:
18              (A) MEDIUM TYPE: Floppy disk
19              (B) COMPUTER: IBM PC compatible
20              (C) OPERATING SYSTEM: PC-DOS/MS-DOS
21              (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
22         (vi) CURRENT APPLICATION DATA:
23              (A) APPLICATION NUMBER: US/09/512,568
24              (B) FILING DATE: 24-FEB-2000
25              (C) CLASSIFICATION: <Unknown>
26        (vii) PRIOR APPLICATION DATA:
27              (A) APPLICATION NUMBER: US/09/199,534
28              (B) FILING DATE: 25-Nov-1998
29              (A) APPLICATION NUMBER: 08/642,406
30              (B) FILING DATE: <Unknown>
31              (A) APPLICATION NUMBER: US 07/427,765
32              (B) FILING DATE: 27-OCT-1989
33       (viii) ATTORNEY/AGENT INFORMATION:
34              (A) NAME: Logan, April C.
35              (B) REGISTRATION NUMBER: 33,950
36              (C) REFERENCE/DOCKET NUMBER: 184.2
37         (ix) TELECOMMUNICATION INFORMATION:
38              (A) TELEPHONE: (619) 554-2937
39              (B) TELEFAX: (619) 554-6312
40    (2) INFORMATION FOR SEQ ID NO: 1:
41          (i) SEQUENCE CHARACTERISTICS:
42              (A) LENGTH: 18 base pairs
43              (B) TYPE: nucleic acid
44              (C) STRANDEDNESS: single
45              (D) TOPOLOGY: linear
46         (ii) MOLECULE TYPE: DNA (genomic)
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--> (line 25)

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47    (iii) HYPOTHETICAL: NO
48     (iv) ANTI-SENSE: NO
49     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
50      CCTTGACCGT AAGACATG                                              18
51
52  (2) INFORMATION FOR SEQ ID NO: 2:
53      (i) SEQUENCE CHARACTERISTICS:
54          (A) LENGTH: 22 base pairs
55          (B) TYPE: nucleic acid
56          (C) STRANDEDNESS: single
57          (D) TOPOLOGY: linear
58     (ii) MOLECULE TYPE: DNA (genomic)
59    (iii) HYPOTHETICAL: NO
60     (iv) ANTI-SENSE: NO
61     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
62      AATTCATGTC TTACGGTCAA GG                                         22
63
64  (2) INFORMATION FOR SEQ ID NO: 3:
65      (i) SEQUENCE CHARACTERISTICS:
66          (A) LENGTH: 33 base pairs
67          (B) TYPE: nucleic acid
68          (C) STRANDEDNESS: single
69          (D) TOPOLOGY: linear
70     (ii) MOLECULE TYPE: DNA (genomic)
71    (iii) HYPOTHETICAL: NO
72     (iv) ANTI-SENSE: NO
73     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
74      TGTGAAAACC ATATTGAATT CCACCAATAC AAA                             33
75
76  (2) INFORMATION FOR SEQ ID NO: 4:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 45 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
82     (ii) MOLECULE TYPE: DNA (genomic)
83    (iii) HYPOTHETICAL: NO
84     (iv) ANTI-SENSE: NO
85     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
86      ATTTAGCACA ACATCCATGT CGACGAATTC AATCCAAAAA AGCAT                45
87
88  (2) INFORMATION FOR SEQ ID NO: 5:
89      (i) SEQUENCE CHARACTERISTICS:
90          (A) LENGTH: 42 base pairs
91          (B) TYPE: nucleic acid
92          (C) STRANDEDNESS: single
93          (D) TOPOLOGY: linear
94     (ii) MOLECULE TYPE: DNA (genomic)
95    (iii) HYPOTHETICAL: NO
96     (iv) ANTI-SENSE: NO
97     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
98      GGGGAGCTGG TGGTGGAATT CGTCGACCTT TGTCTCTAAC AC                   42
99
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100   (2) INFORMATION FOR SEQ ID NO: 6:
101        (i) SEQUENCE CHARACTERISTICS:
102             (A) LENGTH: 30 base pairs
103             (B) TYPE: nucleic acid
104             (C) STRANDEDNESS: single
105             (D) TOPOLOGY: linear
106       (ii) MOLECULE TYPE: DNA (genomic)
107      (iii) HYPOTHETICAL: NO
108       (iv) ANTI-SENSE: NO
109       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
110        CCATCCCATG GTTGAATTCA GTGTCGTCAG                              30
111
112   (2) INFORMATION FOR SEQ ID NO: 7:
113        (i) SEQUENCE CHARACTERISTICS:
114             (A) LENGTH: 45 base pairs
115             (B) TYPE: nucleic acid
116             (C) STRANDEDNESS: single
117             (D) TOPOLOGY: linear
118       (ii) MOLECULE TYPE: DNA (genomic)
119      (iii) HYPOTHETICAL: NO
120       (iv) ANTI-SENSE: NO
121       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
122        CTGCAACTGG ACCTGCATGT CGACGAATTC AGCTCCTGAC AGGAG            45
123
124   (2) INFORMATION FOR SEQ ID NO: 8:
125        (i) SEQUENCE CHARACTERISTICS:
126             (A) LENGTH: 42 base pairs
127             (B) TYPE: nucleic acid
128             (C) STRANDEDNESS: single
129             (D) TOPOLOGY: linear
130       (ii) MOLECULE TYPE: DNA (genomic)
131      (iii) HYPOTHETICAL: NO
132       (iv) ANTI-SENSE: NO
133       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
134        CCTGTAGGAC CAGAGGAATT CGTCGACACT GGGATTATTT AC               42
135
136   (2) INFORMATION FOR SEQ ID NO: 9:
137        (i) SEQUENCE CHARACTERISTICS:
138             (A) LENGTH: 75 base pairs
139             (B) TYPE: nucleic acid
140             (C) STRANDEDNESS: single
141             (D) TOPOLOGY: linear
142       (ii) MOLECULE TYPE: DNA (genomic)
143      (iii) HYPOTHETICAL: NO
144       (iv) ANTI-SENSE: NO
145       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
146        GAATTCATTC AAGAATAGTT CAAACAAGAA GATTACAAAC TATCAATTTC ATACACAATA   60
147        TAAACGATTA AAAGA                                             75
148
149   (2) INFORMATION FOR SEQ ID NO: 10:
150        (i) SEQUENCE CHARACTERISTICS:
151             (A) LENGTH: 90 amino acids
152             (B) TYPE: amino acid
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153            (D) TOPOLOGY: linear
154      (ii) MOLECULE TYPE: peptide
155       (v) FRAGMENT TYPE: N-terminal
156      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
157            Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
158            1               5                   10                  15
159            Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
160                        20                  25                  30
161            Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
162                        35                  40                  45
163            Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
164                        50                  55                  60
165            Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
166            65                  70                  75                  80
167            Ser Leu Asp Leu Lys Arg Asp Val Val Leu
168                            85                  90
169
170  (2) INFORMATION FOR SEQ ID NO: 11:
171       (i) SEQUENCE CHARACTERISTICS:
172            (A) LENGTH: 90 amino acids
173            (B) TYPE: amino acid
174            (D) TOPOLOGY: linear
175      (ii) MOLECULE TYPE: peptide
176       (v) FRAGMENT TYPE: N-terminal
177      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
178            Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
179            1               5                   10                  15
180            Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
181                        20                  25                  30
182            Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
183                        35                  40                  45
184            Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
185                        50                  55                  60
186            Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
187            65                  70                  75                  80
188            Ser Leu Asp Leu Lys Arg Glu Val Glu Leu
189                            85                  90
190
191  (2) INFORMATION FOR SEQ ID NO: 12:
192       (i) SEQUENCE CHARACTERISTICS:
193            (A) LENGTH: 16 amino acids
194            (B) TYPE: amino acid
195            (D) TOPOLOGY: linear
196      (ii) MOLECULE TYPE: peptide
197       (v) FRAGMENT TYPE: N-terminal
198      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
199            Met Glu Leu Asp Leu Ser Leu Pro Leu Ser Gly Ala Ala Gly Gly Thr
200            1               5                   10                  15
201
202  (2) INFORMATION FOR SEQ ID NO: 13:
203       (i) SEQUENCE CHARACTERISTICS:
204            (A) LENGTH: 31 base pairs
205            (B) TYPE: nucleic acid
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206              (C) STRANDEDNESS: single
207              (D) TOPOLOGY: linear
208         (ii) MOLECULE TYPE: DNA (genomic)
209        (iii) HYPOTHETICAL: NO
210         (iv) ANTI-SENSE: NO
211         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
212          ACCAGATCTA TGGAATGGAC CTGGGTTTTT C                    31
213
214    (2) INFORMATION FOR SEQ ID NO: 14:
215          (i) SEQUENCE CHARACTERISTICS:
216              (A) LENGTH: 30 base pairs
217              (B) TYPE: nucleic acid
218              (C) STRANDEDNESS: single
219              (D) TOPOLOGY: linear
220         (ii) MOLECULE TYPE: DNA (genomic)
221        (iii) HYPOTHETICAL: NO
222         (iv) ANTI-SENSE: NO
223         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
224          CCCAAGCTTG GTTTTGGAGA TGGTTTTCTC                      30
225
226    (2) INFORMATION FOR SEQ ID NO: 15:
227          (i) SEQUENCE CHARACTERISTICS:
228              (A) LENGTH: 31 base pairs
229              (B) TYPE: nucleic acid
230              (C) STRANDEDNESS: single
231              (D) TOPOLOGY: linear
232         (ii) MOLECULE TYPE: DNA (genomic)
233        (iii) HYPOTHETICAL: NO
234         (iv) ANTI-SENSE: NO
235         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
236          GATAAGCTTG GTCCTACTCC TCCTCCTCCT A                    31
237
238    (2) INFORMATION FOR SEQ ID NO: 16:
239          (i) SEQUENCE CHARACTERISTICS:
240              (A) LENGTH: 30 base pairs
241              (B) TYPE: nucleic acid
242              (C) STRANDEDNESS: single
243              (D) TOPOLOGY: linear
244         (ii) MOLECULE TYPE: DNA (genomic)
245        (iii) HYPOTHETICAL: NO
246         (iv) ANTI-SENSE: NO
247         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
248          AATCTCGAGT CAGTAGCAGA TGCCATCTCC                      30
249
250    (2) INFORMATION FOR SEQ ID NO: 17:
251          (i) SEQUENCE CHARACTERISTICS:
252              (A) LENGTH: 30 base pairs
253              (B) TYPE: nucleic acid
254              (C) STRANDEDNESS: single
255              (D) TOPOLOGY: linear
256         (ii) MOLECULE TYPE: DNA (genomic)
257        (iii) HYPOTHETICAL: NO
258         (iv) ANTI-SENSE: NO
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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION   *US/09/512,568*

Line	Error	Original Text
25	Wrong Classification	(C) CLASSIFICATION: < Unknown >

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION   *US/09/512,568*

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< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION   *US/09/512,568*

INPUT SET: S30756.raw

Line	Original Text	Corrected Text

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION   *US/09/512,568*

INPUT SET: S30756.raw

Line	Error	Original Text
25	Wrong Classification	(C) CLASSIFICATION: < Unknown >

SEQUENCE MISSING ITEM REPORT
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< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION   *US/09/512,568*

INPUT SET: S30756.raw

Line	Original Text	Corrected Text